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**PROCESSES FOR THE OXIDATION OF ALKANES****Patent number:** EP0938463**Publication date:** 1999-09-01**Inventor:** BROCKWELL JONATHAN LESTER (US); WARREN BARBARA KNIGHT (US); YOUNG MARK ANDERSON (US); ETZKORN WILLIAM GEORGE (US); MAHER JOHN MICHAEL (US)**Applicant:** BROCKWELL JONATHAN LESTER (US); WARREN BARBARA KNIGHT (US); YOUNG MARK ANDERSON (US); ETZKORN WILLIAM GEORGE (US); MAHER JOHN MICHAEL (US); UNION CARBIDE CHEM PLASTIC (US)**Classification:****- International:** C07C51/215; C07C51/25; C07C57/04**- european:****Application number:** EP19970917087 19970327**Priority number(s):** WO1997US05054 19970327; US19960014679P 19960401; ZA19980008524 19980917**Also published as:**WO973684  
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Processes are disclosed for the oxidation of alkanes such as, for example, propane, to form unsaturated carbox aldehydes and acids such as, for example, acrolein and acrylic acid. The processes utilize oxygen and recycle alkanes, e.g., propane, to the aldehyde reactor. The presence of the alkene in the alkene-to-aldehyde reaction enhance the efficiency of the processes.